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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

BACKER, FIRMIN

ART UNIT	PAPER NUMBER
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3621

DATE MAILED: 01/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/695,622

Applicant(s)

RAJAN ET AL.

Examiner

Firmin Backer

Art Unit

3621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 September 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-263, 265-273 and 291-295 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-263, 265-273 and 291-295 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

Response to Amendment

This is in response to an amendment file on September 8th, 2004. In the amendment, claims 264 and 274-290 have been canceled, and no claim has been added. Claims 1-263, 265-273, 291-295 remain pending in the letter.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 98 and 102 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
3. Claim 98 and 102 respectively recite the limitation "said services" in paragraphs 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for

Art Unit: 3621

patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-263, 265-273 and 291-295 are rejected under 35 U.S.C. 102(e) as being anticipated by Andrews et al (U.S. PG Pub No. 2004/0002883).

6. As per claims 1 and 295, Andrews et al teach a system having a processor, memory operative with the processor, and storage media operative with the processor, the system further comprising: a business framework; a database framework operative with the business framework; and a client framework operative with the business framework; wherein the business framework, the database framework, and the client framework form an enterprise system framework (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*)

7. As per claims 2-8, Andrews et al teach a system wherein the enterprise system framework includes one or more rapid development services that include one or more developer services to allow one or more developers to execute the enterprise system framework from a local computer system without configuring the enterprise system framework and security, to debug one or more stored procedures to develop the business framework to generate a business framework abstraction of the business framework (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

Art Unit: 3621

8. As per claims 9, 10, Andrews et al teach a system wherein the business framework abstraction allows the business framework to modify one or more business framework services that the business framework provides to one or more business objects, to modify a business framework methodology (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

9. As per claims 11-35, Andrews et al teach a system wherein a set of central services on the one or more business objects includes administrative services allow the business framework to track system usage provides a set of central services for one or more business objects includes transaction services provided by a COM+ transaction server and business framework include security services to control user access to the one or more business objects, security services to control user access to one or more external objects, one or more database one or more client objects and wherein the security services utilize one or more services provided by an external service provider, are abstracted from an external service provider's implementation wherein security services include automatic generation of special components that form walls around the one or more business objects to control access to the one or more business objects includes organizational services a compulsory belonging of business objects to one or more business groups identifying business objects as belonging to the client framework compulsory naming conventions for the one or more business objects protocol services enable a protocol to be abstracted from communication between the one or more business objects and the client framework, an external framework a database framework , one or more client objects to use

Art Unit: 3621

different protocols based on a special group to which they belong (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

10. As per claims 36-39, Andrews et al teach a system wherein the one or more business objects are distributed on more than one server, more than one client, database external object (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

11. As per claims 40-48, Andrews et al teach a system wherein the set of central services includes adapter services allow the one or more business objects to invoke other computer systems include computer systems implementing the database framework, include computer systems implementing an external framework (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

12. As per claims 49-54, Andrews et al teach a system wherein the set of central services on the business objects includes error-handling services support a capture of one or more operating system exceptions a capture of one or more COM errors, include logging errors in an event viewer when errors are captured logging errors in an event viewer when errors are detected generating at least one call stack (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and*

Art Unit: 3621

accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202).

13. As per claims 55-63, Andrews et al teach a system wherein the set of central services includes layering services include a client framework layer an external framework layer a reporting system layer a client framework layer, an external framework layer, and a reporting system layer, enables the client framework and the business framework in an optimized manner includes having the client framework and the business framework interact with a minimum of round-trips in an abstracted fashion (*see abstract, figs –9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202).*

14. As per claims 64-72, Andrews et al teach a system wherein the set of central services on business objects includes life-cycle services include notifying the one or more business objects before and after the business objects are created, updated, deleted fetched (*see abstract, figs –9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202).*

15. As per claims 72-84, Andrews et al teach a system wherein the set of central services includes rapid development services allow the one or more business objects that are/are not tied to a database to be generated automatically consist of a layer of non-generated code and a layer of generated-if-not-existing code provides generic services for the business object to make copies

Art Unit: 3621

of themselves automatically guarantees that the layer of generated code implements one or more certain services contains services to assist the layer of generated code and the layer of generated-if-not-existing code are created by a third-party tool is overwritten by a developer (*see abstract, figs –9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

16. As per claims 85-97, Andrews et al teach a system wherein the state/stateless objects can encapsulate one row of a database table such that encapsulation is done within the layer of generated code for the state object can automatically contain one or more get member functions where the member functions match a database schema where the member functions match a database schema, wherein the member variables are objects when a corresponding database type is a calendar generated code can contain status flags wherein the collection of state objects encapsulate zero or more state objects compile-time bound to a corresponding state object is implemented using a container algorithm is abstracted into a separate object (*see abstract, figs –9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

17. As per claims 98-110, Andrews et al teach a system wherein the services allow run-time binding of business objects to inherit from each other convert automatically from one business object to another, enable automatic replay of deadlock database errors when detected to keep copies, optionally and automatically, of their old state includes messaging services to send messages to other users include message queue services enable asynchronous method invocation

Art Unit: 3621

between business objects to be invoked immediately and in the event of a failure available even when an application is not configured in a transaction server (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

18. As per claims 111-120, Andrews et al teach a system wherein the set of central services for the business objects include asynchronous services include an ability for business objects to invoke each other in an asynchronous manner do not preclude the ability for one or more business objects to invoke each other in a synchronous manner are available if an application is not configured in a transaction server are optimized for high-performance communication includes scheduling services allow business objects to be invoked once at a given date and time includes reporting services allow integration with an external report application provide rapid development for reports include an external report application having binding functions in state objects (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

19. As per claims 121-129, Andrews et al teach a system wherein the database framework consists of one or more stored procedures, one or more user-defined types, one or more tables, and one or more views in a relational database all access to the database framework is through the stored procedures, the user-defined types, tables, and views all follow one or more naming conventions allow a third-party tool to identify all insert stored procedures, all update stored procedures, all delete stored procedures, and all query stored procedures that correspond to each

Art Unit: 3621

table and to each view in the database allows a third-party tool to generate automatically all insert stored procedures, update stored procedures, and all delete stored procedures that correspond to all tables and views wherein the generation allows the stored procedures to support simultaneous access by multiple users keeping history automatically more services rapidly wherein the user-defined types enables one or more database columns to identify themselves as components within a unit system (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

20. As per claims 130-156, Andrews et al teach a system wherein the client framework provides rapid development services for the client framework enable the client framework to change one or more central services for one or more client forms and one or more client dialogs en masse a set of central services for client forms, client dialogs, and HTML pages includes abstraction services to abstract client forms and client dialogs from a web browser that hosts the client forms and the client dialogs providing life-cycle services notifying/allowing the client forms and the client dialogs to initialize/override the client forms and the client dialogs and further notifying the client forms and the client dialogs when a command such and get, save, refresh, delete command is invoked wherein the set of central services include performance services include caching services caching services include routing all outbound calls through a cache so that an outbound call need not be made if one or more results are already in the cache written in C++ wherein the performance services include asynchronous services include services which enable one or more client objects to invoke one or more server objects in an asynchronous

Art Unit: 3621

manner downloading services enable the downloading of the client forms and other objects as a background process making the client forms, the client dialogs and the client framework light-weight include using the business objects natively (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

21. As per claims 157-167, Andrews et al teach a system wherein the central services include persistence services allow HTML page state to be preserved rapid development services include automatic updating of a status flag of the one or more business objects property services enable one or more controls on HTML pages to exhibit behavior based on properties defined for the control allows the client forms and the client dialogs to invoke business objects without coding includes loading one or more controls from specific business object data, taking action on a control selection, taking action when a get, a save, a delete, a refresh, and a history command is invoked wherein the rapid development services, the client forms and the client dialogs are written in Visual Basic include integration with a deployment apparatus to discover all binaries needing to be installed on a client machine (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

22. As per claims 168-178, Andrews et al teach a system wherein an external framework operates within an enterprise application interface provides a set of central services includes protocol services include a protocol framework for incorporating new protocols into the system

Art Unit: 3621

wherein the set of central services includes communication services include synchronous invocation services wherein the synchronous invocation services allow synchronous method invocation between objects within the external framework and one or more external clients wherein the communication services include subscribe/publish invocation services include subscribe invocation services allow external framework objects to publish events asynchronously (*see abstract, figs -9, 12A, 13A, 30, 31A, 31B, 42A, 42B, 43 and accompanied paragraphs, in addition see paragraphs 0004, 0060, 0061, 0074-0092, 0189-0202*).

23. As per claims 179-263, 265-273 and 291-294, they are dependent of claims 1 and disclose inventive concept that are already rejected in claims 1-78. Therefore they are rejected under the same rationale.

Conclusion

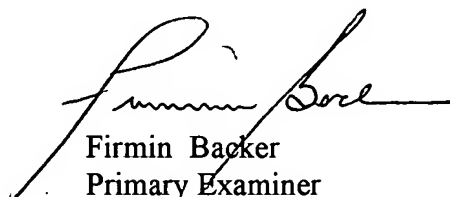
24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (*see form 892*).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Firmin Backer whose telephone number is (703) 305-0624. The examiner can normally be reached on Mon-Thu 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (703) 305-9768. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Firmin Backer
Primary Examiner
Art Unit 3621

December 14, 2004